

COURSE OUTLINE – Winter 2017

CHEM 4513: Synthetic Organic Chemistry

Instructor: Dr. Amitabh Jha: ajha@acadiau.ca; Office: ELL 108, Tel: 902-585-1515

Office Hours: Wednesdays 1:30-4:30 pm (and by appointment)

Textbook: No textbook needed (Any undergraduate level organic chemistry textbook can be consulted)

Lectures: M/W/F, 8:30-9:30 am (ELL109)

Marking Scheme:

Synthetic Chemistry Quiz	10%
Mechanism Quiz	10%
Midterm	20% (Friday March 03, in class)
Presentations	30%
Final Exam	30% (Cumulative; TBA)

There will not be any make-up midterm exam. If the midterm is missed with a valid excuse (as determined by the Registrar), that percentage of your grade is transferred to the final exam.

Topics to be Covered:

The objective of this course is to apply the knowledge of synthetic organic chemistry and design (7-10 step) synthetic route to a complex target compound. Several new and specialized reactions will be taught but the reactions learned previously in Chem 2513, Chem 2533 and Chem 3513 will also be employed in the design process. Lectures will be delivered on the following topics:

C-C Single bond formation
C=C Double bond formation
Oxidation Reactions
Reduction Reactions

A synthetic chemistry quiz will be posed at the beginning of almost every lecture. The response to some of these quizzes will be marked. There will be some emphasis on learning reaction mechanisms.

Students will also be expected to learn through literature search, preparation of PowerPoint presentations and delivering lectures. Topics will be allotted in the first week of the class.

Online Learning:

ACORN: Class syllabus, supplementary materials, class announcements, and other important information will be posted on ACORN.

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Accessible Learning Services:

If you have a documented disability and require support or accommodations, please contact Dr. Abu Kamara, Coordinator, Accessible Learning Services at 902-585-1291, abu.kamara@acadiau.ca or Kathy O'Rourke, Disability Resource Facilitator at 902-585-1823, disability.access@acadiau.ca. Accessible Learning Services is located in the Fountain Commons, Lower Level.

Academic Integrity:

It is your responsibility to acquaint yourself with the university policy on academic integrity. Academic dishonesty such as cheating and plagiarism are not tolerated. Any form of academic dishonesty in examinations, tests, labs, or assignments is subject to serious academic penalty. A full description of the penalties associated with academic dishonesty is outlined in the 2016-2017 Undergraduate Calendar.